

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
29 June 2006 (29.06.2006)

PCT

(10) International Publication Number
WO 2006/068613 A1

(51) International Patent Classification:
F41H 1/02 (2006.01)

(21) International Application Number:
PCT/SE2005/002009

(22) International Filing Date:
20 December 2005 (20.12.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
60/593,203 21 December 2004 (21.12.2004) US

(72) Inventor; and

(75) Inventor/Applicant (for US only): **GRAPHENIUS,**
Jonas [SE/SE]; Lyckselevägen 14, S-162 67 Vällingby
(SE).

(74) Agents: **HARROP, Linda** et al.; Fasth Law Offices, 26
Pinecrest Plaza, Suite 2, Southern Pines, NC 28387-4301
(US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

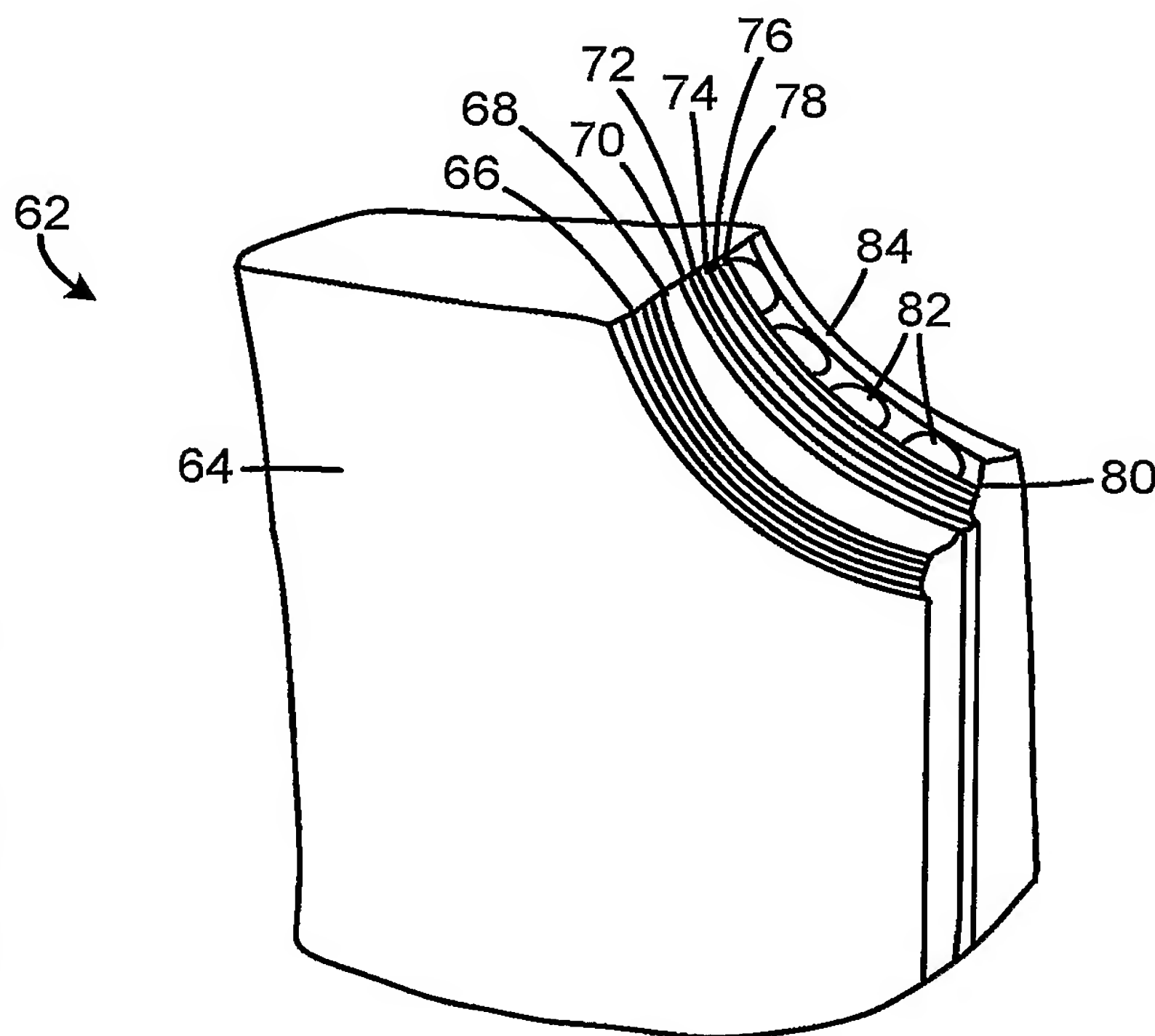
(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD OF USING A BULLET PROOF VEST



(57) Abstract: The method is for receiving a bullet in a bullet proof vest (10). A plate structure (62) is provided that has an airtight enclosure (64) enclosing high performance fiber layers (66), a hard layer (68), a textile layer (70) having openings defined therein and a semi-solid layer (72) such as bitumen. A bullet penetrates through the airtight enclosure (64). The pressure inside the airtight enclosure is increased. The increased pressure separates the layers (66) from the hard layer (68) and the textile layer (70) from the hard layer (68). The hard layer deforms the bullet. The textile layer attaches to the bullet to follow the bullet. The layer (72) sticks to the bullet as the bullet penetrates through the plate structure (62).

WO 2006/068613 A1